



CONTAINS NO CBI

EPA-OTS



000622480M

90-890000 373

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Comprehensive Assessment Information Rule
REPORTING FORM

09 JUL -5 AM 9:25
OFFICE

When completed, send this form to:

Document Processing Center
Office of Toxic Substances, TS-790
U.S. Environmental Protection Agency
401 M Street, SW
Washington, DC 20460
Attention: CAIR Reporting Office

For Agency Use Only:

Date of Receipt: _____

Document
Control Number: _____

Docket Number: _____

PART A GENERAL REPORTING INFORMATION

1.01 This Comprehensive Assessment Information Rule (CAIR) Reporting Form has been completed in response to the Federal Register Notice of..... [1][2] [2][2] [8][8]
CBI mo. day year

☐ a. If a Chemical Abstracts Service Number (CAS No.) is provided in the Federal Register, list the CAS No. [0][0][0][5][8][4]-[8][4]-[9]

b.* If a chemical substance CAS No. is not provided in the Federal Register, list either (i) the chemical name, (ii) the mixture name, or (iii) the trade name of the chemical substance as provided in the Federal Register.

(i) Chemical name as listed in the rule _____

(ii) Name of mixture as listed in the rule _____

(iii) Trade name as listed in the rule _____

c. If a chemical category is provided in the Federal Register, report the name of the category as listed in the rule, the chemical substance CAS No. you are reporting on which falls under the listed category, and the chemical name of the substance you are reporting on which falls under the listed category.

Name of category as listed in the rule _____

CAS No. of chemical substance [] [] [] [] [] [] - [] [] - [] []

Name of chemical substance _____

1.02 Identify your reporting status under CAIR by circling the appropriate response(s).

CBI Manufacturer 1
☐ Importer 2
Processor ③
X/P manufacturer reporting for customer who is a processor 4
X/P processor reporting for customer who is a processor 5

☐ Mark (X) this box if you attach a continuation sheet.

1.03 Does the substance you are reporting on have an "x/p" designation associated with it in the above-listed Federal Register Notice?

CBI

☒ Yes ☒ Go to question 1.04

☐ No ☐ Go to question 1.05

1.04 a. Do you manufacture, import, or process the listed substance and distribute it under a trade name(s) different than that listed in the Federal Register Notice? Circle the appropriate response.

CBI

☐ Yes 1

☐ No (2)

b. Check the appropriate box below: N/A

☐ You have chosen to notify your customers of their reporting obligations

Provide the trade name(s)

☐ You have chosen to report for your customers

☐ You have submitted the trade name(s) to EPA one day after the effective date of the rule in the Federal Register Notice under which you are reporting.

1.05 If you buy a trade name product and are reporting because you were notified of your reporting requirements by your trade name supplier, provide that trade name.

CBI

☐ Trade name N/A

Is the trade name product a mixture? Circle the appropriate response.

☐ Yes 1

☐ No 2

1.06 Certification -- The person who is responsible for the completion of this form must sign the certification statement below:

CBI

☐ "I hereby certify that, to the best of my knowledge and belief, all information entered on this form is complete and accurate."

Carol Ann K. Maslanka
NAME

Carol Ann K. Maslanka
SIGNATURE

6/27/89
DATE SIGNED

SUPERVISOR, ENVIRONMENTAL SAFETY ENGINEER (215)
TITLE

822 - 2929
TELEPHONE NO.

☐ Mark (X) this box if you attach a continuation sheet.

1.07 Exemptions From Reporting -- If you have provided EPA or another Federal agency with the required information on a CAIR Reporting Form for the listed substance within the past 3 years, and this information is current, accurate, and complete for the time period specified in the rule, then sign the certification below. You are required to complete section 1 of this CAIR form and provide any information now required but not previously submitted. Provide a copy of any previous submissions along with your Section 1 submission.

CBI

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"I hereby certify that, to the best of my knowledge and belief, all required information which I have not included in this CAIR Reporting Form has been submitted to EPA within the past 3 years and is current, accurate, and complete for the time period specified in the rule."

NAME	N/A	SIGNATURE	DATE SIGNED
TITLE	()	TELEPHONE NO.	DATE OF PREVIOUS SUBMISSION

1.08 CBI Certification -- If you have asserted any CBI claims in this report you must certify that the following statements truthfully and accurately apply to all of those confidentiality claims which you have asserted.

CBI

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"My company has taken measures to protect the confidentiality of the information, and it will continue to take these measures; the information is not, and has not been, reasonably ascertainable by other persons (other than government bodies) by using legitimate means (other than discovery based on a showing of special need in a judicial or quasi-judicial proceeding) without my company's consent; the information is not publicly available elsewhere; and disclosure of the information would cause substantial harm to my company's competitive position."

NAME	N/A	SIGNATURE	DATE SIGNED
TITLE	()	TELEPHONE NO.	

RT B CORPORATE DATA

09 Facility Identification

BI Name [A][M][E][R][I][C][A][N][E][L][E][C][T][R][O][N][I][C][S][E][N][G]
 Address [3][0][5][R][I][C][H][A][R][D][S][O][N][R][O][A][D]
 Street
 [L][A][N][S][D][A][L][E]
 City
 [P][A] [1][9][4][4][6]--[1][4][2][9]
 State Zip

Dun & Bradstreet Number [0][0]-[2][3][4]-[6][6][9][0]
 EPA ID Number P.A.D. [0][0][9][2][2][4][9][8][1]
 Employer ID Number 9[4][1][5][0][2][1][2][6]
 Primary Standard Industrial Classification (SIC) Code [3][6][6][2]
 Other SIC Code [3][6][6][9]
 Other SIC Code [3][6][7][2]

10 Company Headquarters Identification

BI Name [A][E][L][I][N][D][V][S][T][R][I][E][S][I][N][C]
 Address [3][0][5][R][I][C][H][A][R][D][S][O][N][R][O][A][D]
 Street
 [L][A][N][S][D][A][L][E]
 City
 [P][A] [1][9][4][4][6]--[1][4][2][9]
 State Zip

Dun & Bradstreet Number [0][0]-[2][3][4]-[6][6][9][0]
 Employer ID Number 9[4][1][5][0][2][1][2][6]

1 Parent Company Identification

Name [A][E][L] [I][N][D][U][S][T][R][I][E][S] [I][N][C] [][][][][][][][][][][][][][][]

] Address [3][0][5] [R][I][C][H][A][R][D][S][O][N] [P][O][A][D] [][][][][][][][][][][][][][][]
Street

[L][A][N][S][D][A][L][E] [][][][][][][][][][][][][][][]
City

[P][A] [L][9][4][4][6]--[L][4][2][9]
State Zip

Dun & Bradstreet Number[0][0]-[2][3][4]-[6][6][9][0]

12 Technical Contact

I Name [E][D] [S][K][R][Z][A][T] Title [E][N][V][I][R] [E] [S][A][F][E][T][Y] [T][E][C][H][N][I][C][I][A][N]

[] Address [3][0][5] [R][I][C][H][A][R][D][S][O][N] Street [R][O][A][D] City [L][A][N][S][D][A][L][E] State [P][A] Zip [7][9][4][4][6]--[1][4][2][9]

Telephone Number[2][1][5]-[8][2][2]-[2][9][2][9]

13 This reporting year is from [0] [3] [8] [7] to [0] [2] [8] [8]
Mo. Year Mo. Year

N/A

N/A

N/A

N/A

☐ Mark (X) this box if you attach a continuation sheet.

PART C IDENTIFICATION OF MIXTURES

- 1.17 Mixture -- If the listed substance on which you are required to report is a mixture or a component of a mixture, provide the following information for each component chemical. (If the mixture composition is variable, report an average percentage of each component chemical for all formulations.)

CBI

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Component Name	Supplier Name	Average % Composition by Weight (specify precision, e.g., 45% ± 0.5%)
TOLUENE DIISOCYANATE	CONAP INC.	UNK
PROPYLENE GLYCOL METHYL ETHER ACETATE	CONAP INC.	UNK
XYLENE	CONAP INC.	UNK
AROMATIC POLYISOCYANATE	CONAP INC.	60
Total		100%

was manufactured, imported, or processed at your facility during the reporting year.

CBI

Classification

Quantity (kg/yr)

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Manufactured	<u>0</u>
Imported	<u>0</u>
Processed (include quantity repackaged)	<u>11.36</u>

Of that quantity manufactured or imported, report that quantity:

In storage at the beginning of the reporting year	<u>0</u>
*For on-site use or processing	<u>0</u>
For direct commercial distribution (including export)	<u>0</u>
In storage at the end of the reporting year	<u>0</u>

Of that quantity processed, report that quantity:

In storage at the beginning of the reporting year	<u>UNK</u>
Processed as a reactant (chemical producer)	<u>0</u>
Processed as a formulation component (mixture producer)	<u>0</u>
Processed as an article component (article producer)	<u>11.36</u>
Repackaged (including export)	<u>0</u>
In storage at the end of the reporting year	<u>3.8</u>

☐ Mark (X) this box if you attach a continuation sheet.

2.04 State the quantity of the listed substance that your facility manufactured, imported or processed during the 3 corporate fiscal years preceding the reporting year in descending order.

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<input type="checkbox"/>	Year ending	[0][2]	[8][7]	
		Mo.	Year	
Quantity manufactured		0		kg
Quantity imported		0		kg
Quantity processed		7.5		kg
Year ending		[0][2]	[8][6]	
		Mo.	Year	
Quantity manufactured		0		kg
Quantity imported		0		kg
Quantity processed		7.5		kg
Year ending		[0][2]	[8][5]	
		Mo.	Year	
Quantity manufactured		0		kg
Quantity imported		0		kg
Quantity processed		7.5		kg

2.05 Specify the manner in which you manufactured the listed substance. Circle all appropriate process types.

N/A

CBI

<input type="checkbox"/>	Continuous process	1
	Semicontinuous process	2
	Batch process	3

☐ Mark (X) this box if you attach a continuation sheet.

2.06 Specify the manner in which you processed the listed substance. Circle all
CBI appropriate process types.

- ☐ Continuous process 1
☐ Semicontinuous process 2
☐ Batch process (3)

2.07 State your facility's name-plate capacity for manufacturing or processing the listed substance. (If you are a batch manufacturer or batch processor, do not answer this question.)

☐ Manufacturing capacity N/A kg/yr
Processing capacity N/A kg/yr

2.08 If you intend to increase or decrease the quantity of the listed substance manufactured, imported, or processed at any time after your current corporate fiscal year, estimate the increase or decrease based upon the reporting year's production volume.

<input type="checkbox"/>	Manufacturing Quantity (kg)	Importing Quantity (kg)	Processing Quantity (kg)
Amount of increase	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
Amount of decrease	<u>N/A</u>	<u>N/A</u>	<u>3.75</u>

☐ Mark (X) this box if you attach a continuation sheet.

- 2.09 For the three largest volume manufacturing or processing process types involving the listed substance, specify the number of days you manufactured or processed the listed substance during the reporting year. Also specify the average number of hours per day each process type was operated. (If only one or two operations are involved, list those.)

CBI

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	<u>Days/Year</u>	<u>Average Hours/Day</u>
Process Type #1 (The process type involving the largest quantity of the listed substance.)		
Manufactured	<u>0</u>	<u>0</u>
Processed	<u>104</u>	<u>5</u>
Process Type #2 (The process type involving the 2nd largest quantity of the listed substance.)		
Manufactured	<u>N/A</u>	<u>N/A</u>
Processed	<u>N/A</u>	<u>N/A</u>
Process Type #3 (The process type involving the 3rd largest quantity of the listed substance.)		
Manufactured	<u>N/A</u>	<u>N/A</u>
Processed	<u>N/A</u>	<u>N/A</u>

- 2.10 State the maximum daily inventory and average monthly inventory of the listed substance that was stored on-site during the reporting year in the form of a bulk chemical.

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Maximum daily inventory	<u>N/A</u>	kg
Average monthly inventory	<u>N/A</u>	kg

☐ Mark (X) this box if you attach a continuation sheet.

- 2.11. Related Product Types -- List any byproducts, coproducts, or impurities present with the listed substance in concentrations greater than 0.1 percent as it is manufactured, imported, or processed. The source of byproducts, coproducts, or impurities means the source from which the byproducts, coproducts, or impurities are made or introduced into the product (e.g., carryover from raw material, reaction product, etc.).

CBI

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CAS No.	Chemical Name	Byproduct, Coproduct or Impurity ¹	Concentration (%) (specify \pm % precision)	Source of By-products, Coproducts, or Impurities
N/A	N/A	N/A	N/A	N/A
†				

¹Use the following codes to designate byproduct, coproduct, or impurity:

B = Byproduct
C = Coproduct
I = Impurity

☐ Mark (X) this box if you attach a continuation sheet.

- 2.12 Existing Product Types -- List all existing product types which you manufactured, imported, or processed using the listed substance during the reporting year. List the quantity of listed substance you use for each product type as a percentage of the total volume of listed substance used during the reporting year. Also list the quantity of listed substance used captively on-site as a percentage of the value listed under column b., and the types of end-users for each product type. (Refer to the instructions for further explanation and an example.)

CBI

☐

a. Product Types ¹	b. % of Quantity Manufactured, Imported, or Processed	c. % of Quantity Used Captively On-Site	d. Type of End-Users ²
* K	100%	25%	H

¹Use the following codes to designate product types:

A = Solvent
 B = Synthetic reactant
 C = Catalyst/Initiator/Accelerator/
 Sensitizer
 D = Inhibitor/Stabilizer/Scavenger/
 Antioxidant
 E = Analytical reagent
 F = Chelator/Coagulant/Sequestrant
 G = Cleanser/Detergent/Degreaser
 H = Lubricant/Friction modifier/Antiwear
 agent
 I = Surfactant/Emulsifier
 J = Flame retardant
 K = Coating/Binder/Adhesive and additives

L = Moldable/Castable/Rubber and additives
 M = Plasticizer
 N = Dye/Pigment/Colorant/Ink and additives
 O = Photographic/Reprographic chemical
 and additives
 P = Electrodeposition/Plating chemicals
 Q = Fuel and fuel additives
 R = Explosive chemicals and additives
 S = Fragrance/Flavor chemicals
 T = Pollution control chemicals
 U = Functional fluids and additives
 V = Metal alloy and additives
 W = Rheological modifier
 X = Other (specify) _____

²Use the following codes to designate the type of end-users:

I = Industrial
 CM = Commercial

CS = Consumer
 H = Other (specify) MILITARY

☐ Mark (X) this box if you attach a continuation sheet.

- 2.13. Expected Product Types -- Identify all product types which you expect to manufacture import, or process using the listed substance at any time after your current corporate fiscal year. For each use, specify the quantity you expect to manufacture import, or process for each use as a percentage of the total volume of listed substance used during the reporting year. Also list the quantity of listed substance used captively on-site as a percentage of the value listed under column b., and the types of end-users for each product type. (Refer to the instructions for further explanation and an example.)

CBI

☐

a.	b.	c.	d.
* Product Types ¹	% of Quantity Manufactured, Imported, or Processed	% of Quantity Used Captively On-Site	Type of End-Users ²
K	100%	95%	H

¹Use the following codes to designate product types:

A = Solvent	L = Moldable/Castable/Rubber and additives
B = Synthetic reactant	M = Plasticizer
C = Catalyst/Initiator/Accelerator/ Sensitizer	N = Dye/Pigment/Colorant/Ink and additives
D = Inhibitor/Stabilizer/Scavenger/ Antioxidant	O = Photographic/Reprographic chemical and additives
E = Analytical reagent	P = Electrodeposition/Plating chemicals
F = Chelator/Coagulant/Sequestrant	Q = Fuel and fuel additives
G = Cleanser/Detergent/Degreaser	R = Explosive chemicals and additives
H = Lubricant/Friction modifier/Antiwear agent	S = Fragrance/Flavor chemicals
I = Surfactant/Emulsifier	T = Pollution control chemicals
J = Flame retardant	U = Functional fluids and additives
K = Coating/Binder/Adhesive and additives	V = Metal alloy and additives
	W = Rheological modifier
	X = Other (specify) _____

²Use the following codes to designate the type of end-users:

I = Industrial	CS = Consumer
CM = Commercial	H = Other (specify) <u>MILITARY</u>

☐ Mark (X) this box if you attach a continuation sheet.

2.14 Final Product -- Complete the following table for each type of final product manufactured, imported, or processed at your facility that contains the listed substance other than as an impurity.

☐

a.	b.	c.	d.
Product Type ¹	Final Product's Physical Form ²	Average % Composition of Listed Substance in Final Product	Type of End-User
X	F4	100	H

¹Use the following codes to designate product types:

A = Solvent	L = Moldable/Castable/Rubber and ad
B = Synthetic reactant	M = Plasticizer
C = Catalyst/Initiator/Accelerator/Sensitizer	N = Dye/Pigment/Colorant/Ink and ad
D = Inhibitor/Stabilizer/Scavenger/Antioxidant	O = Photographic/Reprographic chemi and additives
E = Analytical reagent	P = Electrodeposition/Plating chemi
F = Chelator/Coagulant/Sequestrant	Q = Fuel and fuel additives
G = Cleanser/Detergent/Degreaser	R = Explosive chemicals and additive
H = Lubricant/Friction modifier/Antiwear agent	S = Fragrance/Flavor chemicals
I = Surfactant/Emulsifier	T = Pollution control chemicals
J = Flame retardant	U = Functional fluids and additives
K = Coating/Binder/Adhesive and additives	V = Metal alloy and additives
	W = Rheological modifier
	X = Other (specify) <u>ELECTRONIC COMPONENTS</u>

²Use the following codes to designate the final product's physical form:

A = Gas	F2 = Crystalline solid
B = Liquid	F3 = Granules
C = Aqueous solution	F4 = Other solid
D = Paste	G = Gel
E = Slurry	H = Other (specify) _____
F1 = Powder	

³Use the following codes to designate the type of end-users:

I = Industrial	CS = Consumer
CM = Commercial	H = Other (specify) <u>MILITARY</u>

☐ Mark (X) this box if you attach a continuation sheet.

2.15 Circle all applicable modes of transportation used to deliver bulk shipments of listed substance to off-site customers.

☐ Truck
Railcar
Barge, Vessel
Pipeline
Plane
Other (specify) NO BULK SHIPMENTS

2.16 Customer Use -- Estimate the quantity of the listed substance used by your customer or prepared by your customers during the reporting year for use under each category of end use listed (i-iv).

☐ Category of End Use

i. Industrial Products

Chemical or mixture	<u>N/A</u>
Article	<u>N/A</u>

ii. Commercial Products

Chemical or mixture	<u>N/A</u>
Article	<u>N/A</u>

iii. Consumer Products

Chemical or mixture	<u>N/A</u>
Article	<u>N/A</u>

iv. Other

Distribution (excluding export)	<u>N/A</u>
Export	<u>N/A</u>
Quantity of substance consumed as reactant	<u>N/A</u>
Unknown customer uses	<u>N/A</u>

☐ Mark (X) this box if you attach a continuation sheet.

SECTION 3 PROCESSOR RAW MATERIAL IDENTIFICATION

PART A GENERAL DATA

3.01 Specify the quantity purchased and the average price paid for the listed substance for each major source of supply listed. Product trades are treated as purchases.
CBI The average price is the market value of the product that was traded for the listed substance.

<input type="checkbox"/> Source of Supply	Quantity (kg)	Average Price (\$/kg)
The listed substance was manufactured on-site.	0	0
The listed substance was transferred from a different company site.	0	0
The listed substance was purchased directly from a manufacturer or importer.	11.36	10.23
The listed substance was purchased from a distributor or repackager.	0	0
The listed substance was purchased from a mixture producer.	0	0

3.02 Circle all applicable modes of transportation used to deliver the listed substance to your facility.

- ☐ Truck ①
- Railcar 2
- Barge, Vessel 3
- Pipeline 4
- Plane 5
- Other (specify) _____ 6

☐ Mark (X) this box if you attach a continuation sheet.

3.03 a. Circle all applicable containers used to transport the listed substance to your facility.

CBI

☐

- Bags 1
- Boxes 2
- Free standing tank cylinders 3
- Tank rail cars 4
- Hopper cars 5
- Tank trucks 6
- Hopper trucks 7
- Drums 8
- Pipeline 9
- Other (specify) 10

b. If the listed substance is transported in pressurized tank cylinders, tank rail cars, or tank trucks, state the pressure of the tanks.

Tank cylinders N/A mmHg

Tank rail cars N/A mmHg

Tank trucks N/A mmHg

☐ Mark (X) this box if you attach a continuation sheet.

PART B RAW MATERIAL IN THE FORM OF A MIXTURE

3.04 If you obtain the listed substance in the form of a mixture, list the trade name(s) of the mixture, the name of its supplier(s) or manufacturer(s), an estimate of the average percent composition by weight of the listed substance in the mixture, and the amount of mixture processed during the reporting year.

CBI

☐

<u>Trade Name</u>	<u>Supplier or Manufacturer</u>	<u>Average % Composition by Weight (specify \pm % precision)</u>	<u>Amount Processed (kg/yr)</u>
*CONATHANE CE-1155A	CONAP INC.	UNK	11.36

☐ Mark (X) this box if you attach a continuation sheet.

PART C RAW MATERIAL VOLUME

3.05 State the quantity of the listed substance used as a raw material during the reporting year in the form of a class I chemical, class II chemical, or polymer, and the percent composition, by weight, of the listed substance.

☐

	Quantity Used (kg/yr)	% Composition by Weight of Listed Sub- stance in Raw Material (specify \pm % precision)
Class I chemical	0	N/A
Class II chemical	0	N/A
Polymer	11.36	UNK

☐ Mark (X) this box if you attach a continuation sheet.

SECTION 4 PHYSICAL/CHEMICAL PROPERTIES

General Instructions:

If you are reporting on a mixture as defined in the glossary, reply to questions in Section 4 that are inappropriate to mixtures by stating "NA -- mixture."

For questions 4.06-4.15, if you possess any hazard warning statement, label, MSDS, or other notice that addresses the information requested, you may submit a copy or reasonable facsimile in lieu of answering those questions which it addresses.

PART A PHYSICAL/CHEMICAL DATA SUMMARY

- 4.01 Specify the percent purity for the three major¹ technical grade(s) of the listed substance as it is manufactured, imported, or processed. Measure the purity of the substance in the final product form for manufacturing activities, at the time you import the substance, or at the point you begin to process the substance.

☐

	<u>Manufacture</u>	<u>Import</u>	<u>Process</u>
Technical grade #1	<u>N/A</u> % purity	<u>N/A</u> % purity	<u>N/A</u> % purity
Technical grade #2	<u>N/A</u> % purity	<u>N/A</u> % purity	<u>N/A</u> % purity
Technical grade #3	<u>N/A</u> % purity	<u>N/A</u> % purity	<u>N/A</u> % purity

¹Major = Greatest quantity of listed substance manufactured, imported or processed.

- 4.02 Submit your most recently updated Material Safety Data Sheet (MSDS) for the listed substance, and for every formulation containing the listed substance. If you possess an MSDS that you developed and an MSDS developed by a different source, submit your version. Indicate whether at least one MSDS has been submitted by circling the appropriate response.

Yes ①

No 2

Indicate whether the MSDS was developed by your company or by a different source.

Your company 1

Another source ②

☐ Mark (X) this box if you attach a continuation sheet.

- 4.03 Submit a copy or reasonable facsimile of any hazard information (other than an MSDS) that is provided to your customers/users regarding the listed substance or any formulation containing the listed substance. Indicate whether this information has been submitted by circling the appropriate response.

Yes

No ☒

- 4.04 For each activity that uses the listed substance, circle all the applicable number(s) corresponding to each physical state of the listed substance during the activity listed. Physical states for importing and processing activities are determined at the time you import or begin to process the listed substance. Physical states for manufacturing, storage, disposal and transport activities are determined using the final state of the product.

CBI

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Activity	Physical State				
	Solid	Slurry	Liquid	Liquified Gas	Gas
Manufacture	1	2	3	4	5
Import	1	2	3	4	5
Process	<input checked="" type="radio"/> 1	2	<input checked="" type="radio"/> 3	4	5
Store	1	2	<input checked="" type="radio"/> 3	4	5
Dispose	1	2	<input checked="" type="radio"/> 3	4	5
Transport	1	2	<input checked="" type="radio"/> 3	4	5

☐ Mark (X) this box if you attach a continuation sheet.

4.05 Particle Size -- If the listed substance exists in particulate form during any of the following activities, indicate for each applicable physical state the size and the percentage distribution of the listed substance by activity. Do not include particles ≥ 10 microns in diameter. Measure the physical state and particle sizes for importing and processing activities at the time you import or begin to process the listed substance. Measure the physical state and particle sizes for manufacturing storage, disposal and transport activities using the final state of the product.

CBI

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Physical State		Manufacture	Import	Process	Store	Dispose	Transport
Dust	<1 micron	N/A	N/A	N/A	N/A	N/A	N/A
	1 to <5 microns						
	5 to <10 microns						
Powder	<1 micron						
	1 to <5 microns						
	5 to <10 microns						
Fiber	<1 micron						
	1 to <5 microns						
	5 to <10 microns						
Aerosol	<1 micron						
	1 to <5 microns						
	5 to <10 microns						

☐ Mark (X) this box if you attach a continuation sheet.

SECTION 5 ENVIRONMENTAL FATE

PART A RATE CONSTANTS AND TRANSFORMATION PRODUCTS

5.01 Indicate the rate constants for the following transformation processes.

a. Photolysis:

Absorption spectrum coefficient (peak) UNK (1/M cm) at _____ nm
 Reaction quantum yield, ϕ UNK at _____ nm
 Direct photolysis rate constant, k_p , at ... UNK 1/hr _____ latitude

b. Oxidation constants at 25°C:

For 1O_2 (singlet oxygen), k_{ox} UNK 1/M hr
 For RO_2 (peroxy radical), k_{ox} UNK 1/M hr

c. Five-day biochemical oxygen demand, BOD_5 ... UNK mg/l

d. Biotransformation rate constant:

For bacterial transformation in water, k_b ... UNK 1/hr
 Specify culture UNK

e. Hydrolysis rate constants:

For base-promoted process, k_b UNK 1/M hr
 For acid-promoted process, k_a UNK 1/M hr
 For neutral process, k_n UNK 1/hr

f. Chemical reduction rate (specify conditions) UNK

g. Other (such as spontaneous degradation) ... N/A

☐ Mark (X) this box if you attach a continuation sheet.

PART B PARTITION COEFFICIENTS

5.02 a. Specify the half-life of the listed substance in the following media.

<u>Media</u>	<u>Half-life (specify units)</u>
Groundwater	<u>UNK</u>
* Atmosphere	<u>UNK</u>
Surface water	<u>UNK</u>
Soil	<u>UNK</u>

b. Identify the listed substance's known transformation products that have a half-life greater than 24 hours.

<u>CAS No.</u>	<u>Name</u>	<u>Half-life (specify units)</u>	<u>Media</u>
<u>UNK</u>			in
			in
			in
			in

5.03 Specify the octanol-water partition coefficient, K_{ow} ... UNK at 25°C
Method of calculation or determination

5.04 Specify the soil-water partition coefficient, K_d UNK at 25°C
Soil type

5.05 Specify the organic carbon-water partition coefficient, K_{oc} UNK at 25°C

5.06 Specify the Henry's Law Constant, H UNK atm-m³/mole

☐ Mark (X) this box if you attach a continuation sheet.

5.07 List the bioconcentration factor (BCF) of the listed substance, the species for which it was determined, and the type of test used in deriving the BCF.

<u>Bioconcentration Factor</u>	<u>Species</u>	<u>Test</u> ¹
<u>UNK</u>	<u>UNK</u>	

¹Use the following codes to designate the type of test:

F = Flowthrough
S = Static

☐ Mark (X) this box if you attach a continuation sheet.

6.04 For each market listed below, state the quantity sold and the total sales value of the listed substance sold or transferred in bulk during the reporting year.

☐

<u>Market</u>	<u>Quantity Sold or Transferred (kg/yr)</u>	<u>Total Sales Value (\$/yr)</u>
Retail sales		
Distribution -- Wholesalers		
Distribution -- Retailers		
Intra-company transfer		
Repackagers		
Mixture producers		
Article producers		
Other chemical manufacturers or processors		
Exporters		
Other (specify)		

6.05

Substitutes -- List all known commercially feasible substitutes that you know exist for the listed substance and state the cost of each substitute. A commercially feasible substitute is one which is economically and technologically feasible to use in your current operation, and which results in a final product with comparable performance in its end uses.

CBI

☐

<u>Substitute</u>	<u>Cost (\$/kg)</u>
NONE	

☐ Mark (X) this box if you attach a continuation sheet.

SECTION 7 MANUFACTURING AND PROCESSING INFORMATION

General Instructions:

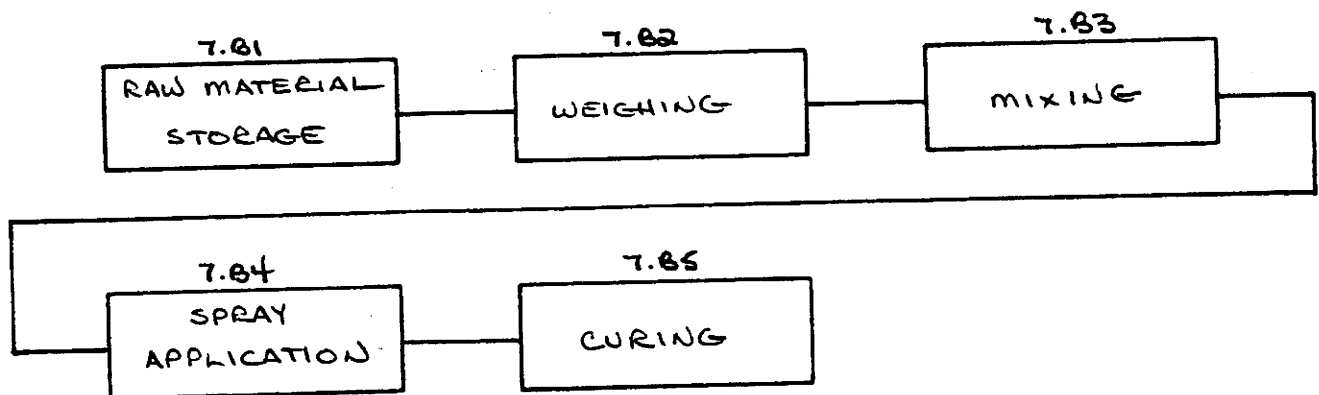
For questions 7.04-7.06, provide a separate response for each process block flow diagram provided in questions 7.01, 7.02, and 7.03. Identify the process type from which the information is extracted.

PART A MANUFACTURING AND PROCESSING PROCESS TYPE DESCRIPTION

7.01 In accordance with the instructions, provide a process block flow diagram showing the major (greatest volume) process type involving the listed substance.

CBI

☐ Process type SPRAY APPLICATION - COATING



☐ Mark (X) this box if you attach a continuation sheet.

7.03 In accordance with the instructions, provide a process block flow diagram showing all process emission streams and emission points that contain the listed substance and which, if combined, would total at least 90 percent of all facility emissions if not treated before emission into the environment. If all such emissions are released from one process type, provide a process block flow diagram using the instructions for question 7.01. If all such emissions are released from more than one process type, provide a process block flow diagram showing each process type as a separate block.

CBI

☐ Process type SPRAY APPLICATION

N/A

☐ Mark (X) this box if you attach a continuation sheet.

7.04 Describe the typical equipment types for each unit operation identified in your process block flow diagram(s). If a process block flow diagram is provided for more than one process type, photocopy this question and complete it separately for each process type.

CBI

☐ Process type SPRAY APPLICATION

Unit Operation *ID Number	Typical Equipment Type	Operating Temperature Range (°C)	Operating Pressure Range (mm Hg)	Vessel Composition
<u>7.B5</u>	<u>CURING OVEN</u>	<u>65-185</u>	<u>N/A</u>	<u>N/A</u>
<u>7.B4</u>	<u>SPRAY BOOTH</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

☐ Mark (X) this box if you attach a continuation sheet.

7.05 Describe each process stream identified in your process block flow diagram(s). If a process block flow diagram is provided for more than one process type, photocopy this question and complete it separately for each process type.

CBI

☐ Process type SPRAY APPLICATION

Process Stream * ID Code	Process Stream Description	Physical State ¹	Stream Flow (kg/yr)
<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>

¹Use the following codes to designate the physical state for each process stream:

GC = Gas (condensable at ambient temperature and pressure)
 GU = Gas (uncondensable at ambient temperature and pressure)
 SO = Solid
 SY = Sludge or slurry
 AL = Aqueous liquid
 OL = Organic liquid
 IL = Immiscible liquid (specify phases, e.g., 90% water, 10% toluene)

☐ Mark (X) this box if you attach a continuation sheet.

CBI

[]

[illegible]

7.06 continued below

[]

7.06 (continued)

¹For each additive package introduced into a process stream, specify the compounds that are present in each additive package, and the concentration of each component. Assign an additive package number to each additive package and list this number in column b. (Refer to the instructions for further explanation and an example. Refer to the glossary for the definition of additive package.)

Additive Package Number	Components of Additive Package	Concentrations (% or ppm)
<u>1</u>	<u>N/A</u>	<u>N/A</u>
<u>2</u>		
<u>3</u>		
<u>4</u>		
<u>5</u>		

²Use the following codes to designate how the concentration was determined:

A = Analytical result
E = Engineering judgement/calculation

³Use the following codes to designate how the concentration was measured:

V = Volume
W = Weight

☐ Mark (X) this box if you attach a continuation sheet.

PART A RESIDUAL TREATMENT PROCESS DESCRIPTION

8.01 In accordance with the instructions, provide a residual treatment block flow diagram which describes the treatment process used for residuals identified in question 7.01

CBI

☐ Process type SPRAY APPLICATION

N/A

☐ Mark (X) this box if you attach a continuation sheet.

PART B RESIDUAL GENERATION AND CHARACTERIZATION

8.05 Characterize each process stream identified in your residual treatment block flow diagram(s). If a residual treatment block flow diagram is provided for more than one process type, photocopy this question and complete it separately for each process type. (Refer to the instructions for further explanation and an example.)

CBI

[] Process type SPRAY APPLICATION

[illegible]

8.05 continued below

☐ Mark (X) this box if you attach a continuation sheet.

8.05 (continued)

¹Use the following codes to designate the type of hazardous waste:

I = Ignitable
C = Corrosive
R = Reactive
E = EP toxic
T = Toxic
H = Acutely hazardous
‡

²Use the following codes to designate the physical state of the residual:

GC = Gas (condensable at ambient temperature and pressure)
GU = Gas (uncondensable at ambient temperature and pressure)
SO = Solid
SY = Sludge or slurry
AL = Aqueous liquid
OL = Organic liquid
IL = Immiscible liquid (specify phases, e.g., 90% water, 10% toluene)

8.05 continued below

☐ Mark (X) this box if you attach a continuation sheet.

8.05 (continued)

³For each additive package introduced into a process stream, specify the compounds that are present in each additive package, and the concentration of each component. Assign an additive package number to each additive package and list this number in column d. (Refer to the instructions for further explanation and an example. Refer to the glossary for the definition of additive package.)

Additive Package Number	Components of Additive Package	Concentrations (% or ppm)
1	N/A	N/A
2		
3		
4		
5		

⁴Use the following codes to designate how the concentration was determined:

A = Analytical result
E = Engineering judgement/calculation

8.05 continued below

☐ Mark (X) this box if you attach a continuation sheet.

8.05 (continued)

⁵Use the following codes to designate how the concentration was measured:

V = Volume

W = Weight

⁶Specify the analytical test methods used and their detection limits in the table below. Assign a code to each test method used and list those codes in column e.

<u>Code</u>	<u>Method</u>	<u>Detection Limit</u> <u>(± ug/l)</u>
<u>1</u>	<u>N/A</u>	<u> </u>
<u>2</u>	<u> </u>	<u> </u>
<u>3</u>	<u> </u>	<u> </u>
<u>4</u>	<u> </u>	<u> </u>
<u>5</u>	<u> </u>	<u> </u>
<u>6</u>	<u> </u>	<u> </u>

☐ Mark (X) this box if you attach a continuation sheet.

CBI

[illegible]

²Use the codes provided in Exhibit 8-2 to designate the management methods

58

8.22 Describe the combustion chamber design parameters for each of the three largest (by capacity) incinerators that are used on-site to burn the residuals identified in your process block or residual treatment block flow diagram(s).

☐

Incinerator	Combustion Chamber Temperature (°C)		Location of Temperature Monitor		Residence Time In Combustion Chamber (seconds)	
	Primary	Secondary	Primary	Secondary	Primary	Secondary
1						
2						
3						

Indicate if Office of Solid Waste survey has been submitted in lieu of response by circling the appropriate response.

Yes

No

8.23 Complete the following table for the three largest (by capacity) incinerators that are used on-site to burn the residuals identified in your process block or residual treatment block flow diagram(s).

☐

☐

Incinerator	Air Pollution Control Device ¹	Types of Emissions Data Available
1	N/A	N/A
2		
3		

Indicate if Office of Solid Waste survey has been submitted in lieu of response by circling the appropriate response.

Yes

No

¹Use the following codes to designate the air pollution control device:

S = Scrubber (include type of scrubber in parenthesis)
 E = Electrostatic precipitator
 O = Other (specify) _____

☐ Mark (X) this box if you attach a continuation sheet.

PART A EMPLOYMENT AND POTENTIAL EXPOSURE PROFILE

9.01 Mark (X) the appropriate column to indicate whether your company maintains records the following data elements for hourly and salaried workers. Specify for each data element the year in which you began maintaining records and the number of years the records for that data element are maintained. (Refer to the instructions for further explanation and an example.)

CBI

☐

Data Element	Data are Maintained for:		Year in Which Data Collection Began	Number of Years Records Are Maintained
	Hourly Workers	Salaried Workers		
Date of hire	X	X	1950	INDEFINITELY
Age at hire	X	X	1950	INDEFINITELY
Work history of individual before employment at your facility	X	X	1950	INDEFINITELY
Sex	X	X	1950	INDEFINITELY
Race	X	X	1950	INDEFINITELY
Job titles	X	X	1950	INDEFINITELY
Start date for each job title	X	X	1950	INDEFINITELY
End date for each job title	X	X	1950	INDEFINITELY
Work area industrial hygiene monitoring data	N/A	N/A	N/A	N/A
Personal employee monitoring data	N/A	N/A	N/A	N/A
Employee medical history	X	X	1950	INDEFINITELY
Employee smoking history	N/A	N/A	N/A	N/A
Accident history	X	X	1950	INDEFINITELY
Retirement date	X	X	1950	INDEFINITELY
Termination date	X	X	1950	INDEFINITELY
Vital status of retirees	N/A	N/A	N/A	N/A
Cause of death data	N/A	N/A	N/A	N/A

☐ Mark (X) this box if you attach a continuation sheet.

9.02 In accordance with the instructions, complete the following table for each activity in which you engage.

CBI

☐

a.	b.	c.	d.	e.
<u>Activity</u>	<u>Process Category</u>	<u>Yearly Quantity (kg)</u>	<u>Total Workers</u>	<u>Total Worker-Hours</u>
Manufacture of the listed substance	Enclosed	N/A	N/A	N/A
	Controlled Release			
	Open			
On-site use as reactant	Enclosed			
	Controlled Release			
	Open			
On-site use as nonreactant	Enclosed			
	Controlled Release			
	Open			
On-site preparation of products	Enclosed			
	Controlled Release	↓	↓	↓
	Open	11.36	1	530

☐ Mark (X) this box if you attach a continuation sheet.

9.03 Provide a descriptive job title for each labor category at your facility that encompasses workers who may potentially come in contact with or be exposed to the listed substance.

CBI

☐

Labor Category

Descriptive Job Title

A

PLASTICS FABRICATOR

B

GROUP LEADER

C

SUPERVISOR

D

E

F

G

H

I

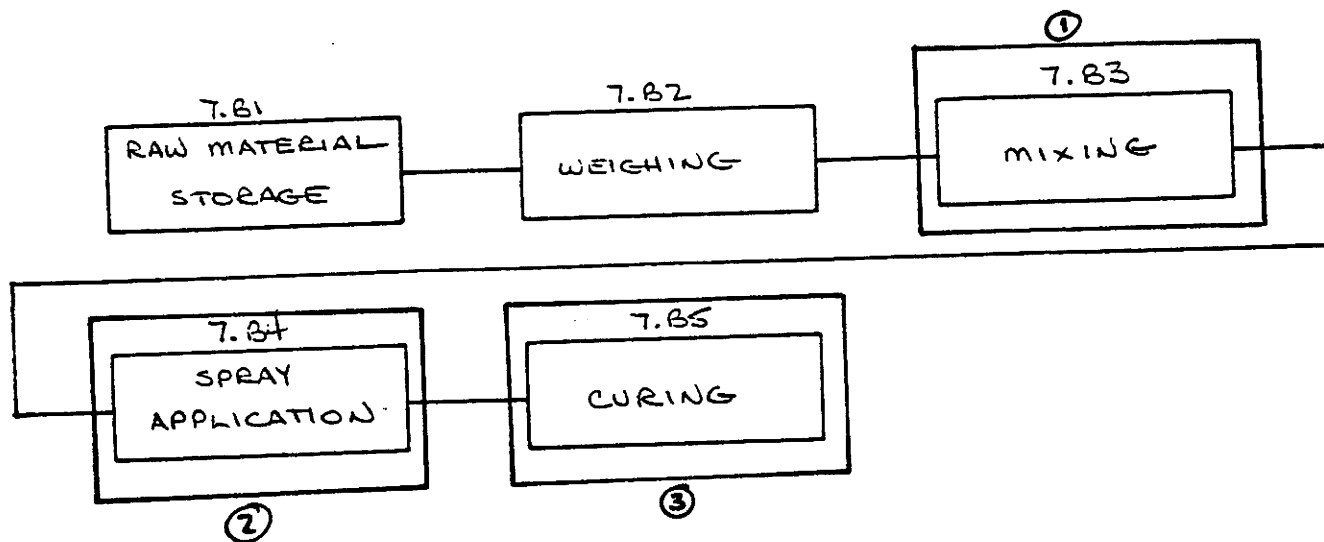
J

☐ Mark (X) this box if you attach a continuation sheet.

9.04 In accordance with the instructions, provide your process block flow diagram(s) and indicate associated work areas.

CBI

☐ Process type SPRAY APPLICATION



☐ Mark (X) this box if you attach a continuation sheet.

9.05 Describe the various work area(s) shown in question 9.04 that encompass workers who may potentially come in contact with or be exposed to the listed substance. Add an additional areas not shown in the process block flow diagram in question 7.01 or 7.02. Photocopy this question and complete it separately for each process type.

CBI

☐ Process type SPRAY APPLICATION

Work Area ID

Description of Work Areas and Worker Activities

1	<u>SET UP AREA - WORKER PREPARES COATING MIXTURE</u>
2	<u>SET UP AREA - WORKER SPRAY APPLIES COATING IN BOOTH</u>
3	<u>SET UP AREA - COATING DRIES & CURES IN AMBIENT AIR</u>
4	<u> </u>
5	<u> </u>
6	<u> </u>
7	<u> </u>
8	<u> </u>
9	<u> </u>
10	<u> </u>

☐ Mark (X) this box if you attach a continuation sheet.

9.06 Complete the following table for each work area identified in question 9.05, and for each labor category at your facility that encompasses workers who may potentially come in contact with or be exposed to the listed substance. Photocopy this question and complete it separately for each process type and work area.

☐ Process type SPRAY APPLICATION

Work area 1-3

#Labor Category	Number of Workers Exposed	Mode of Exposure (e.g., direct skin contact)	Physical State of Listed Substance ¹	Average Length of Exposure Per Day ²	Number of Days per Year Exposed
<u>A, B</u>	<u>2</u>	<u>DIRECT SKIN CONTACT</u>	<u>OL</u>	<u>E</u>	<u>104</u>
<u>C</u>	<u>1</u>	<u>DIRECT SKIN CONTACT</u>	<u>OL</u>	<u>A</u>	<u>104</u>

¹Use the following codes to designate the physical state of the listed substance at the point of exposure:

GC = Gas (condensable at ambient temperature and pressure)	SY = Sludge or slurry
GU = Gas (uncondensable at ambient temperature and pressure; includes fumes, vapors, etc.)	AL = Aqueous liquid
SO = Solid	OL = Organic liquid
	IL = Immiscible liquid (specify phases, e.g., 90% water, 10% toluene)

²Use the following codes to designate average length of exposure per day:

A = 15 minutes or less	D = Greater than 2 hours, but not exceeding 4 hours
B = Greater than 15 minutes, but not exceeding 1 hour	E = Greater than 4 hours, but not exceeding 8 hours
C = Greater than one hour, but not exceeding 2 hours	F = Greater than 8 hours

☐ Mark (X) this box if you attach a continuation sheet.

9.07 For each labor category represented in question 9.06, indicate the 8-hour Time Weighted Average (TWA) exposure levels and the 15-minute peak exposure levels. Photocopy this question and complete it separately for each process type and work area.

CBI

☐ Process type SPRAY APPLICATION

Work area 1-3

<u>Labor Category</u>	<u>8-hour TWA Exposure Level (ppm, mg/m³, other-specify)</u>	<u>15-Minute Peak Exposure Level (ppm, mg/m³, other-specify)</u>
<u>A, B, C</u>	<u>UNK</u>	<u>UNK</u>

☐ Mark (X) this box if you attach a continuation sheet.

PART B WORK PLACE MONITORING PROGRAM

9.08 If you monitor worker exposure to the listed substance, complete the following table.

CBI

☐

Sample/Test	Work Area ID	Testing Frequency (per year)	Number of Samples (per test)	Who Samples ¹	Analyzed In-House (Y/N)	Number of Years Records Maintained
Personal breathing zone		N/A				
General work area (air)		N/A				
Wipe samples		N/A				
Adhesive patches		N/A				
Blood samples		N/A				
Urine samples		N/A				
Respiratory samples		N/A				
Allergy tests		N/A				
Other (specify)						
Other (specify)						
Other (specify)						

¹Use the following codes to designate who takes the monitoring samples:

A = Plant industrial hygienist

B = Insurance carrier

C = OSHA consultant

D = Other (specify) _____

☐ Mark (X) this box if you attach a continuation sheet.

9.09 For each sample type identified in question 9.08, describe the type of sampling and analytical methodology used for each type of sample.

<input type="checkbox"/>	Sample Type	Sampling and Analytical Methodology
	N/A	

9.10 If you conduct personal and/or ambient air monitoring for the listed substance, specify the following information for each equipment type used.

<input type="checkbox"/>	Equipment Type ¹	Detection Limit ²	Manufacturer	Averaging Time (hr)	Model Number
	N/A				

¹Use the following codes to designate personal air monitoring equipment types:

- A = Passive dosimeter
- B = Detector tube
- C = Charcoal filtration tube with pump
- D = Other (specify) _____

Use the following codes to designate ambient air monitoring equipment types:

- E = Stationary monitors located within work area
- F = Stationary monitors located within facility
- G = Stationary monitors located at plant boundary
- H = Mobile monitoring equipment (specify) _____
- I = Other (specify) _____

²Use the following codes to designate detection limit units:

- A = ppm
- B = Fibers/cubic centimeter (f/cc)
- C = Micrograms/cubic meter (μm^3)

☐ Mark (X) this box if you attach a continuation sheet.

9.11 If you conduct routine medical tests for monitoring the health effects of exposure to the listed substance, specify the type and frequency of the tests.

CBI

☐

Test Description

Frequency
(weekly, monthly, yearly, etc.)

N/A

8.

☐ Mark (X) this box if you attach a continuation sheet.

PART C ENGINEERING CONTROLS

9.12 Describe the engineering controls that you use to reduce or eliminate worker exposure to the listed substance. Photocopy this question and complete it separately for each process type and work area.

CBI

☐ Process type SPRAY APPLICATION

Work area 1-3

<u>Engineering Controls</u>	<u>Used (Y/N)</u>	<u>Year Installed</u>	<u>Upgraded (Y/N)</u>	<u>Year Upgraded</u>
Ventilation:				
Local exhaust	<u>Y</u>	<u>1982</u>	<u>N</u>	
General dilution	<u>Y</u>	<u>1982</u>	<u>N</u>	
Other (specify)				
Vessel emission controls	<u>N</u>			
Mechanical loading or packaging equipment	<u>N</u>			
Other (specify)				

☐ Mark (X) this box if you attach a continuation sheet.

9.13 Describe all equipment or process modifications you have made within the 3 years prior to the reporting year that have resulted in a reduction of worker exposure to the listed substance. For each equipment or process modification described, state the percentage reduction in exposure that resulted. Photocopy this question and complete it separately for each process type and work area.

CBI

☐ Process type SPRAY APPLICATION

Work area 1-3

* Equipment or Process Modification	Reduction in Worker Exposure Per Year (%)
<u>REMOVED NARROW SLOT FILTER & REPLACED WITH FIBERGLASS FILTER</u>	<u>UNK</u>
<u>REPLACED EXHAUST FAN & EXTERNALLY MOUNTED FAN</u>	<u>UNK</u>
_____	_____
_____	_____

☐ Mark (X) this box if you attach a continuation sheet.

PART D PERSONAL PROTECTIVE AND SAFETY EQUIPMENT

9.14 Describe the personal protective and safety equipment that your workers wear or use in each work area in order to reduce or eliminate their exposure to the listed substance. Photocopy this question and complete it separately for each process type and work area.

CBI

☐ Process type SPRAY APPLICATION

Work area 1-3

<u>Equipment Types</u>	<u>Wear or Use (Y/N)</u>
Respirators	<u>Y</u>
Safety goggles/glasses	<u>Y</u>
Face shields	<u>N</u>
Coveralls	<u>N</u>
Bib aprons	<u>Y</u>
Chemical-resistant gloves	<u>Y</u>
Other (specify)	
_____	_____
_____	_____

☐ Mark (X) this box if you attach a continuation sheet.

- 9.15 If workers use respirators when working with the listed substance, specify for each process type, the work areas where the respirators are used, the type of respirators used, the average usage, whether or not the respirators were fit tested, and the type and frequency of the fit tests. Photocopy this question and complete it separately for each process type.

CBI

☐ Process type SPRAY APPLICATION

Work Area	Respirator Type	Average Usage ¹	Fit Tested (Y/N)	Type of Fit Test ²	Frequency of Fit Tests (per year)
<u>2</u>	<u>HALF-MASK CARTRIDGE RESPIRATOR</u>	<u>B</u>	<u>N</u>	<u>N/A</u>	<u>N/A</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

¹Use the following codes to designate average usage:

A = Daily
B = Weekly
C = Monthly
D = Once a year
E = Other (specify) _____

²Use the following codes to designate the type of fit test:

QL = Qualitative
QT = Quantitative

☐ Mark (X) this box if you attach a continuation sheet.

PART E WORK PRACTICES

- 9.19 Describe all of the work practices and administrative controls used to reduce or eliminate worker exposure to the listed substance (e.g., restrict entrance only to authorized workers, mark areas with warning signs, insure worker detection and monitoring practices, provide worker training programs, etc.). Photocopy this question and complete it separately for each process type and work area.

CBI

☐

Process type SPRAY APPLICATION

Work area 1-3

COATING ROOM IS RESTRICTED TO AUTHORIZED WORKERS

MARK AREAS WITH WARNING SIGNS

TRAINED AS TO PROCESS HAZARDS WHEN LEARNING PROCESS

COMPANY-WIDE CHEMICAL INFORMATION & PPE PROGRAM TRAINING

- 9.20 Indicate (X) how often you perform each housekeeping task used to clean up routine leaks or spills of the listed substance. Photocopy this question and complete it separately for each process type and work area.

Process type SPRAY APPLICATION

Work area 1-3

<u>Housekeeping Tasks</u>	<u>Less Than Once Per Day</u>	<u>1-2 Times Per Day</u>	<u>3-4 Times Per Day</u>	<u>More Than 4 Times Per Day</u>
Sweeping		<u>X</u>		
Vacuuming	<u>X</u>			
Water flushing of floors	<u>X</u>			
Other (specify)				

☐ Mark (X) this box if you attach a continuation sheet.

9.21 Do you have a written medical action plan for responding to routine or emergency exposure to the listed substance?

Routine exposure

Yes 1

No 2

Emergency exposure

Yes 1

No 2

If yes, where are copies of the plan maintained?

Routine exposure: _____

Emergency exposure: _____

9.22 Do you have a written leak and spill cleanup plan that addresses the listed substance? Circle the appropriate response.

Yes 1

No 2

If yes, where are copies of the plan maintained? BUILDINGS 1 and 2

Has this plan been coordinated with state or local government response organizations? Circle the appropriate response.

Yes 1

No 2

9.23 Who is responsible for monitoring worker safety at your facility? Circle the appropriate response.

Plant safety specialist 1

Insurance carrier 2

OSHA consultant 3

Other (specify) _____ 4

☐ Mark (X) this box if you attach a continuation sheet.

SECTION 10 ENVIRONMENTAL RELEASE

General Instructions:

Complete Part E (questions 10.23-10.35) for each non-routine release involving the listed substance that occurred during the reporting year. Report on all releases that are equal to or greater than the listed substance's reportable quantity value, RQ, unless the release is federally permitted as defined in 42 U.S.C. 9601, or is specifically excluded under the definition of release as defined in 40 CFR 302.3(22). Reportable quantities are codified in 40 CFR Part 302. If the listed substance is not a hazardous substance under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) and thus, does not have an RQ, then report releases that exceed 2,270 kg. If such a substance however, is designated as a CERCLA hazardous substance, then report those releases that are equal to or greater than the RQ. The facility may have answered these questions or similar questions under the Agency's Accidental Release Information Program and may already have this information readily available. Assign a number to each release and use this number throughout this part to identify the release. Releases over more than a 24-hour period are not single releases, i.e., the release of a chemical substance equal to or greater than an RQ must be reported as a separate release for each 24-hour period the release exceeds the RQ.

For questions 10.25-10.35, answer the questions for each release identified in question 10.23. Photocopy these questions and complete them separately for each release.

PART A GENERAL INFORMATION

10.01 Where is your facility located? Circle all appropriate responses.

CBI

- ☐ Industrial area (
- Urban area :
- Residential area (
- Agricultural area :
- Rural area :
- Adjacent to a park or a recreational area (
- Within 1 mile of a navigable waterway :
- Within 1 mile of a school, university, hospital, or nursing home facility (
- Within 1 mile of a non-navigable waterway (
- Other (specify) _____ 10

☐ Mark (X) this box if you attach a continuation sheet.

10.02 Specify the exact location of your facility (from central point where process unit is located) in terms of latitude and longitude or Universal Transverse Mercader (UTM) coordinates.

Latitude 040 ° 16 ' 00

Longitude 075 ° 14 ' 45

UTM coordinates Zone _____, Northing _____, Easting _____

10.03 If you monitor meteorological conditions in the vicinity of your facility, provide the following information.

Average annual precipitation inches/yea

Predominant wind direction

10.04 Indicate the depth to groundwater below your facility.

Depth to groundwater meters

10.05 For each on-site activity listed, indicate (Y/N/NA) all routine releases of the listed substance to the environment. (Refer to the instructions for a definition of CBI Y, N, and NA.)

☐

On-Site Activity	Environmental Release		
	Air	Water	Land
Manufacturing	N/A	N/A	N/A
Importing	N/A	N/A	N/A
Processing	N/A	N/A	N/A
Otherwise used	N/A	N/A	N/A
Product or residual storage	N/A	N/A	N/A
Disposal	N/A	N/A	UNK
Transport	N/A	N/A	N/A

☐ Mark (X) this box if you attach a continuation sheet.

10.08 Describe the control technologies used to minimize release of the listed substance for each process stream containing the listed substance as identified in your process block or residual treatment block flow diagram(s). Photocopy this question and complete it separately for each process type.

CBI

☐ Process type SPRAY APPLICATIONS

<u>Stream ID Code</u>	<u>Control Technology</u>	<u>Percent Efficiency</u>
	N/A	

☐ Mark (X) this box if you attach a continuation sheet.

PART B RELEASE TO AIR

- 10.09 Point Source Emissions -- Identify each emission point source containing the listed substance in terms of a Stream ID Code as identified in your process block or residual treatment block flow diagram(s), and provide a description of each point source. Do not include raw material and product storage vents, or fugitive emission sources (e.g., equipment leaks). Photocopy this question and complete it separately for each process type.

CBI

☐

Process type SPRAY APPLICATION

Point Source
ID Code

Description of Emission Point Source

LOCAL EXHAUST

☐ Mark (X) this box if you attach a continuation sheet.

☐ Mark (X) this box if you attach a continuation sheet.

10.10 Emission Characteristics -- Characterize the emissions for each Point Source ID Code identified in question 10.09 by completing the following table.

CBI

☐

Point Source ID Code	Physical State ¹	Average Emissions (kg/day)	Frequency ² (days/yr)	Duration ³ (min/day)	Average Emission Factor ⁴	Maximum Emission Rate (kg/min)	Maximum Emission Rate Frequency (events/yr)	Maximum Emission Rate Duration (min/event)
	P	UNK	104	300	UNK	UNK	UNK	UNK

¹Use the following codes to designate physical state at the point of release:

G = Gas; V = Vapor; P = Particulate; A = Aerosol; O = Other (specify) _____

²Frequency of emission at any level of emission

³Duration of emission at any level of emission

⁴Average Emission Factor — Provide estimated (\pm 25 percent) emission factor (kg of emission per kg of production of listed substance)

CBI

[]

[illegible]

V = Vertical

115

10.12 If the listed substance is emitted in particulate form, indicate the particle size distribution for each Point Source ID Code identified in question 10.09. Photocopy this question and complete it separately for each emission point source.

CBI

☐

Point source ID code N/A

Size Range (microns)

Mass Fraction (% ± % precision)

- * < 1
- ≥ 1 to < 10
- ≥ 10 to < 30
- ≥ 30 to < 50
- ≥ 50 to < 100
- ≥ 100 to < 500
- ≥ 500

	N/A

Total = 100%

☐ Mark (X) this box if you attach a continuation sheet.

PART C FUGITIVE EMISSIONS

10.13 Equipment Leaks -- Complete the following table by providing the number of equipment types listed which are exposed to the listed substance and which are in service according to the specified weight percent of the listed substance passing through the component. Do this for each process type identified in your process block or residual treatment block flow diagram(s). Do not include equipment types that are not exposed to the listed substance. If this is a batch or intermittently operated process, give an overall percentage of time per year that the process type is exposed to the listed substance. Photocopy this question and complete it separately for each process type.

CBI

☐ Process type SPRAY APPLICATION

Percentage of time per year that the listed substance is exposed to this process type N/A

Equipment Type	Number of Components in Service by Weight Percent of Listed Substance in Process Stream					Greater than 99%
	Less than 5%	5-10%	11-25%	26-75%	76-99%	
Pump seals ¹						
Packed	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
Mechanical						
Double mechanical ²						
Compressor seals ¹						
Flanges						
Valves						
Gas ³						
Liquid						
Pressure relief devices ⁴ (Gas or vapor only)						
Sample connections						
Gas						
Liquid						
Open-ended lines ⁵ (e.g., purge, vent)						
Gas						
Liquid	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>

¹List the number of pump and compressor seals, rather than the number of pumps or compressors

10.13 continued on next page

☐ Mark (X) this box if you attach a continuation sheet.

10.13 (continued)

²If double mechanical seals are operated with the barrier (B) fluid at a pressure greater than the pump stuffing box pressure and/or equipped with a sensor (S) that will detect failure of the seal system, the barrier fluid system, or both, indicate with a "B" and/or an "S", respectively

³ Conditions existing in the valve during normal operation

⁴Report all pressure relief devices in service, including those equipped with control devices

⁵Lines closed during normal operation that would be used during maintenance operations

10.14 Pressure Relief Devices with Controls -- Complete the following table for those pressure relief devices identified in 10.13 to indicate which pressure relief devices in service are controlled. If a pressure relief device is not controlled, enter "None" under column c.

[]

[illegible]

¹Refer to the table in question 10.13 and record the percent range given under the heading entitled "Number of Components in Service by Weight Percent of Listed Substance" (e.g., <5%, 5-10%, 11-25%, etc.)

²The EPA assigns a control efficiency of 100 percent for equipment leaks controlled with rupture discs under normal operating conditions. The EPA assigns a control efficiency of 98 percent for emissions routed to a flare under normal operating conditions

☐ Mark (X) this box if you attach a continuation sheet.

10.15 Equipment Leak Detection -- If a formal leak detection and repair program is in place, complete the following table regarding those leak detection and repair procedures. Photocopy this question and complete it separately for each process type.

CBI

☐ Process type SPRAY APPLICATION

Equipment Type	Leak Detection Concentration (ppm or mg/m ³) Measured at Inches from Source	Detection Device ¹	Frequency of Leak Detection (per year)	Repairs Initiated (days after detection)	Repairs Completed (days after initiated)
Pump seals					
Packed	N/A	N/A	N/A	N/A	N/A
Mechanical					
Double mechanical					
Compressor seals					
Flanges					
Valves					
Gas					
Liquid					
Pressure relief devices (gas or vapor only)					
Sample connections					
Gas					
Liquid					
Open-ended lines					
Gas					
Liquid					

¹Use the following codes to designate detection device:

POVA = Portable organic vapor analyzer

FPM = Fixed point monitoring

0 = Other (specify) _____

☐ Mark (X) this box if you attach a continuation sheet.

☐ Mark (X) this box if you attach a continuation sheet.

- 10.16 Raw Material, Intermediate and Product Storage Emissions - - Complete the following table by providing the information on each liquid raw material, intermediate, and product storage vessel containing the listed substance as identified in your process block or residual treatment block flow diagram(s).

CBI

☐

Vessel Type ¹	Floating Roof ² Seals ²	Composition of Stored Materials ³	Throughput (liters per year)	Vessel Filling Rate (gpm)	Vessel Filling Duration (min)	Vessel Inner Diameter (m)	Vessel Height (m)	Operating Vessel Volume (l)	Vessel Emission Controls ⁴	Design Flow Rate ⁵	Vent Diameter (cm)	Control Efficiency (%)	Basis for Estimate ⁶
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

¹Use the following codes to designate vessel type:

F = Fixed roof
 CIF = Contact internal floating roof
 NCIF = Noncontact internal floating roof
 EFR = External floating roof
 P = Pressure vessel (indicate pressure rating)
 H = Horizontal
 U = Underground

²Use the following codes to designate floating roof seals:

MS1 = Mechanical shoe, primary
 MS2 = Shoe-mounted secondary
 MS2R = Rim-mounted, secondary
 LM1 = Liquid-mounted resilient filled seal, primary
 LM2 = Rim-mounted shield
 LMW = Weather shield
 VM1 = Vapor mounted resilient filled seal, primary
 VM2 = Rim-mounted secondary
 VMW = Weather shield

³Indicate weight percent of the listed substance. Include the total volatile organic content in parenthesis

⁴Other than floating roofs

⁵Gas/vapor flow rate the emission control device was designed to handle (specify flow rate units)

⁶Use the following codes to designate basis for estimate of control efficiency:

C = Calculations
 S = Sampling

PART E NON-ROUTINE RELEASES

10.23 Indicate the date and time when the release occurred and when the release ceased or was stopped. If there were more than six releases, attach a continuation sheet and list all releases.

Release	Date Started	Time (am/pm)	Date Stopped	Time (am/pm)
1	N/A	N/A	N/A	N/A
2				
3				
4				
5				
6				

10.24 Specify the weather conditions at the time of each release.

Release	Wind Speed (km/hr)	Wind Direction	Humidity (%)	Temperature (°C)	Precipitation (Y/N)
1	N/A	N/A	N/A	N/A	N/A
2					
3					
4					
5					
6					

☐ Mark (X) this box if you attach a continuation sheet.

426LF
431-1
437
449

C O N A P I N C .
1405 Buffalo St.
Olean, New York 14760
716/372-9650

===== MATERIAL SAFETY DATA SHEET =====

Note: This form is to be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Blank spaces are not permitted.

===== I. IDENTIFICATION =====

Trade Name: Conathane Ce-1155 Part A Date: 06/07/88
Chemical Name, common name: Complex Mixture; Toluene Diisocyanate based adduct

===== II. HAZARDOUS INGREDIENTS =====

Chemical Names CAS No. % ACGIH(TLV) OSHA(PEL) Other

Xylene 1330-20-7 NA 100ppm ND ND

Propylene glycol methyl ether acetate (PMA)
108-65-6 NA ND ND ND

Based on PMA's similarity to 2-methoxypropanol an exposure limit of 100ppm TWA is recommended.

Toluene Diisocyanate
584-84-9 NA .005ppm TWA .02ppm ceiling
Free monomer content maximum of 0.7% based on resin solids.

Aromatic Polyisocyanate 60% NA ND ND ND

Cured material may be hazardous if soldered through after or during curing. Toxic vapors will be generated when heated to high temperature.

===== III. PHYSICAL DATA =====

Boiling Point: ND !Specific Gravity (H2O=1): 1.05
Vapor Pressure, mm Hg: PMA 3.7mm Hg @ 20C; Xylene: 8mm Hg @ 25C

Vapor Density (air=1): Xylene 3.7

Melting Pt./Range: NA !Evaporation rate (Ether=1): ND

Solubility in Water: Reacts !Physical State: Liquid

Percent volatile by volume: 40% by weight

Appearance and Odor: Clear yellow viscous liquid, solvent odor

===== IV. FIRE AND EXPLOSION DATA =====

Flash Point, F (Method): >45 TCC

Flammable Limits: LEL: UEL:

Extinguishing Materials:

XX-Dry Chemical -XX-Carbon Dioxide

XX-Foam -----Other:

Special Firefighting Procedures:

Full emergency equipment with self contained breathing apparatus should be worn by fire fighters. During a fire irritating and highly toxic gases and smoke are present from decomposition/combustion. Isolate from heat, electrical equipment, sparks and open flame.

Unusual Fire and Explosion Hazards:

Closed container may explode when exposed to extreme heat or burst when contaminated with water (CO2 evolved).

Solvent vapors may be heavier than air. Under conditions of stagnant air, vapors may build up and travel along the ground to an ignition source which may result in a flash back to the source of the vapors.

===== V. HEALTH HAZARD INFORMATION =====
ACUTE TOXICITY (Routes of entry)

Inhalation:

Information on PMA: In short term, repeated inhalation exposure to nearly saturated vapor (4000ppm), test animals showed a slight effect on kidneys or kidney function. Prolonged contact with intact and abraded rabbit skin showed no irritation and potential to produce systemic toxicity via skin absorption is low. Skin sensitization tests in guinea pigs were negative.

TDI vapors or mist at concentrations above the TLV can irritate (burning sensation) the mucous membranes in the respiratory tract (nose, throat, lungs) causing runny nose, sore throat, coughing, chest discomfort, shortness of breath and reduced lung function (breathing obstruction). persons with a preexisting, nonspecific bronchial hyperreactivity can respond to concentrations below the TLV with similar symptoms as well as asthma attack. Exposure well above the TLV may lead to bronchitis, bronchial spasm and pulmonary edema (fluid in the lungs). These effects are usually reversible. Chemical or hypersensitive pneumonitis, with flu-like symptoms (e.g., fever, chills). has also been reported. These symptoms can be delayed up to several hours after exposure. Solvent vapors are irritating to the eyes, nose, and throat. Symptoms of irritation can include: red, itchy eyes, dryness of the throat and tightness in the chest. other possible symptoms of overexposure include: headache, nausea, narcosis, fatigue and loss of appetite. A concentration of 10,000ppm of xylene has been determined to be immediately dangerous to life or health.

Ingestion:

Can result in irritation in the mouth, stomach tissue and digestive tract. Symptoms can include sore throat, abdominal pain, nausea, vomiting and diarrhea. Vomiting may cause aspiration resulting in chemical pneumonitis.

Oral LD50 based on 100% solid polymeric resin > 25 g/Kg (Rat)

Eye Contact:

Liquid, aerosols or vapors are severely irritating and can cause pain, tearing, reddening and swelling. If left untreated, corneal damage can occur and injury is slow to heal, however, damage is usually reversible.

(Based on 100% solid polymeric resin.) Mechanical irritation observed.

Skin Contact:

Isocyanates react with skin protein and moisture and can cause irritation which may include the following symptoms: reddening, swelling, rash, scaling or blistering. Cured material is difficult to remove. Repeated or prolonged skin contact with xylene, Toluene and PMA can result in dry, defatted and cracked skin causing increased susceptibility to infection. In addition, skin irritation (i.e. redness,

swelling) that may develop into dermatitis may occur from skin contact. Solvents may penetrate the skin causing effects similar to those identified under acute inhalation exposure.

(Based on 100% solid polymeric resin.) Dermal LD50 greater than 6.5 g/Kg (Rabbit).

Skin Absorption:

ND

CHRONIC TOXICITY

Carcinogenicity:

XXX-Yes: -XXX--NTP -ND---IARC ND--Federal OSHA

In a draft of a lifetime bioassay, the National Toxicology Program reported that TDI caused an increase in the number of tumors in exposed rats over those counted in non-exposed rats. The TDI was administered by gavage, where TDI was introduced into the stomach through a tube. In lifetime inhalation studies conducted by Hazelton Labs for the International Isocyanate Institute, TDI did not demonstrate carcinogenic activity in rats or mice.

Target Organ Affected:

Reports have associated repeated and prolonged occupational exposure to solvents with permanent brain and nervous system, lung and kidney damage.

Overexposure to Xylene has been found to cause anemia, liver abnormalities, kidney damage, eye damage and cardiac abnormality.

Overexposure to Methoxy Propanol Acetate (PMA) has been associated with injury to the liver and kidney. Eye contact may cause corneal injury.

Effects of Overexposure:

Inhalation:

Irritation of the nose, throat and eyes, dizziness, weakness, fatigue, nausea, headache, possibly narcosis and asphyxiation. May be accompanied by coughing, choking or labored breathing. Asthma like breathing may be a delayed reaction. Vapor, spray mist or liquid causes skin and eye discomfort due to defatting action. Isocyanates can cause lung sensitization. Allergic respiratory reaction may occur in sensitized individuals when exposure to TDI is below the TLV. Can cause lung injury.

As a result of previous repeated overexposures or single large dose, certain individuals may develop isocyanate sensitization (chemical asthma) which will cause them to react to a later exposure to isocyanate at levels well below the TLV. These symptoms, which can include chest tightness, wheezing, cough, shortness of breath or asthmatic attack, could be immediate or delayed up to several hours after exposure. Similar to many non-specific asthmatic responses, there are reports that once sensitized an individual can experience these symptoms upon exposure to dust, cold air or other irritants. This increased lung sensitivity can persist for weeks and in severe cases for several years. Chronic overexposure to isocyanate has also been reported to cause lung damage (including decrease in

lung function) which may be permanent, Sensitization can either be temporary or permanent.

Chronic exposure to organic solvents has been associated with various neurotoxic effects including permanent brain and nervous system damage. Symptoms include loss of memory, loss of intellectual ability and loss of coordination.

Skin Contact:

Prolonged and repeated contact with skin can cause dermatitis and possibly skin sensitization. Prolonged contact can cause reddening, swelling, rash, scaling, blistering, and, in some cases, skin sensitization. Individuals who have developed a skin sensitization can develop these symptoms as a result of contact with very small amounts of liquid material or as a result of exposure to vapor. Chronic skin exposure to the solvent may cause effects similar to those identified under chronic inhalation effects.

Ingestion:

May cause irritation of the mouth and esophagus.

Eye contact:

Expected to be very irritating. Prolonged contact may cause conjunctivitis.

Medical Conditions Aggravated By Exposure

Dermatitis, Asthma, other respiratory disorders (bronchitis, emphysema, bronchial hyperreactivity), skin allergies, eczema.

FIRST AID: EMERGENCY PROCEDURES

Eye Contact:

Flush with clean lukewarm water (low pressure) for at least 15 minutes, occasionally lifting the eyelids. Obtain medical attention. Refer individual to an ophthalmologist for immediate follow-up.

Skin Contact:

Remove contaminated clothing. Wash affected skin areas with soap and water. Wash contaminated clothing thoroughly before re-use. For severe exposures, get under safety shower and remove clothing. Get medical attention.

Inhalation:

Move to an area free from risk of further exposure.

Administer oxygen or artificial respiration as needed.

Obtain medical attention. Asthmatic-type symptoms may develop and may be immediate or delayed up to several hours.

Ingested:

Consult physician. DO NOT INDUCE VOMITING. Give a glass of milk or water to drink. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

Recommendations to Physician:

Eyes: Stain for evidence of corneal injury. If cornea is burned, instill antibiotic steroid preparation frequently.

Workplace vapors have produced reversible corneal epithelial edema impairing vision. SKIN: Treat as contact dermatitis. If burned, treat as thermal burn. RESPIRATORY: Treatment is essentially symptomatic.

===== VI. REACTIVITY DATA =====

Stability: --XX-Stable -----Unstable

Conditions to Avoid:

Contact with moisture and other materials which react with isocyanates. Temperatures which exceed the maximum storage temperature.

Incompatibility (materials to avoid):

Avoid contact with water, alcohols, amines, strong bases, metal compounds or surface active materials. Strong oxidizers.

Hazardous Decomposition Products

Carbon dioxide, carbon monoxide, trace of hydrogen cyanide, oxides of nitrogen.

Hazardous Polymerization: --May Occur XX-Will not occur

Conditions to avoid:

None

===== VII. SPILL, LEAK AND DISPOSAL PROCEDURES =====

Steps to be taken if material is released or spilled:

Consult section VIII for proper protective equipment.

Evacuate non-essential personnel. Remove all sources of ignition. Ventilate the area. Dike or impound spilled material and control further spillage if feasible. Notify appropriate authorities if necessary. Cover spill with sawdust, vermiculite, Fuller's earth or other absorbent material; pour liquid decontaminant over spillage and allow to react at least ten minutes; collect material in OPEN containers and add further amounts of decontamination solution. Remove containers to safe place. Cover loosely. Wash down area with liquid decontaminant and flush spill area with water.

Decontamination solutions: Ammonium hydroxide (0-10%), detergent (2-5%) and balance water; or solution of Union Carbide's Tergitol TMN-10 (20%) and water (80%).

Waste Disposal Method:

Dispose of according to any Local, State and Federal Regulations. Empty containers must be handled with care due to product residue and flammable solvent vapor. Decontaminate containers prior to disposal. DON NOT HEAT OR CUT EMPTY CONTAINER WITH ELECTRIC OR GAS TOUCH.

===== VIII. SPECIAL HANDLING INFORMATION =====

Respiratory Protection:

Follow OSHA regulation 29CFR1910.134 for respirator use. Use air-purifying respirator that respirator supplier has demonstrated to be effective for solvent and isocyanate vapors, when concentrations exceed the TLV up to the maximum level at which the respirator is effective. Where overspray is present, or if the concentration of solvents or isocyanates is not known or exceeds the level at which the air-purifying respirator is effective, a positive pressure air-supplied respirator (TC19C NIOSH/MSHA) is recommended. The use of a positive pressure supplied air respirator is mandatory when: airborne isocyanate concentrations are not known, either of the above guidelines are exceeded, or if spraying is performed in a confined space or area with limited ventilation. It is possible to be exposed to airborne solvent or

isocyanate vapors even during non-spray operations such as mixing, and brush or roller application, depending on the conditions of application. For example, heating of material or application to a hot substrate may increase emissions from the coating. Therefore, when airborne concentrations during such non-spray operations exceed the TLV of 0.005 ppm for isocyanate monomer, but are below 0.05 ppm, at least an air purifying (organic vapor) respirator is required. If airborne concentrations are unknown or exceed 0.05ppm: or if operations are performed in a confined space, a supplied air respirator must be worn. In addition, solvent concentrations should be considered when determining the selection and use of a respirator.

Ventilation:

Designed and maintained to provide volume and pattern to prevent vapor concentration in excess of TLV or LEL. Exhaust air may need to be cleaned by scrubbers or filters to reduce environmental contamination.

Protective Gloves: Neoprene rubber gloves

Eye Protection:

Goggles or full face shield. Contact lenses should not be worn.

Other Protective Clothing or Equipment:

Eye wash station and safety shower should be available.

Work Practices, hygienic practices

Use good industrial hygiene. Wash after handling the material

===== IX SPECIAL PRECAUTIONS =====

Handling and Storage:

Closed containers may explode when exposed to extreme heat. Store between 32 F(0C)/122F(50C). Store in tightly closed container and protect from moisture and foreign materials. At maximum storage temperature noted, material may slowly polymerize without hazard. Ideal storage temperature range is 50-81 F (10-27C).

Other Precautions:

Avoid sparks and open flames.

=====

Name(print): George C. Karpin !This formulation is subject
Signature: *George C. Karpin* !to change without notice.
Title: Toxicological Coordinator! In case of accident use the
Date of last revision 06/07/88 !phone number provided.

To the best of our knowledge, the information contained herein is accurate and meets all state and federal guidelines. However, CONAP INC. does not assume any liability whatsoever for the accuracy or completeness of the information contained herein. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist. Final determination of the suitability of any material is the sole responsibility of the user.

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Date approved: 6 / 8 / 88 Approved: Will P. Hall
ND=Not Determined
NA=Not Applicable
Date Approved: 6 / 8 / 88 Approved: Richard L. Lusk